

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/079676 A1

(51) International Patent Classification⁷: **A61B 17/17**

(21) International Application Number:
PCT/CH2004/000094

(22) International Filing Date: 23 February 2004 (23.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except CA, US): SYN-
THES AG CHUR [CH/CH]; Grabenstrasse 15, CH-7002
Chur (CH).

(71) Applicant (for CA only): SYNTHES (U.S.A.) [US/US];
1690 Russell Road, P.O. Box 1766, Paoli, PA 19301-1222
(US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SCHLIENGER,

André [CH/CH]; Austrasse 21, CH-4144 Arlesheim (CH).
BUETTLER, Markus [CH/CH]; Im Rank 199, CH-4717
Mümliswil (CH). SENN, Peter [CH/CH]; Burgmattstrasse
18, CH-4437 Waldenburg (CH).

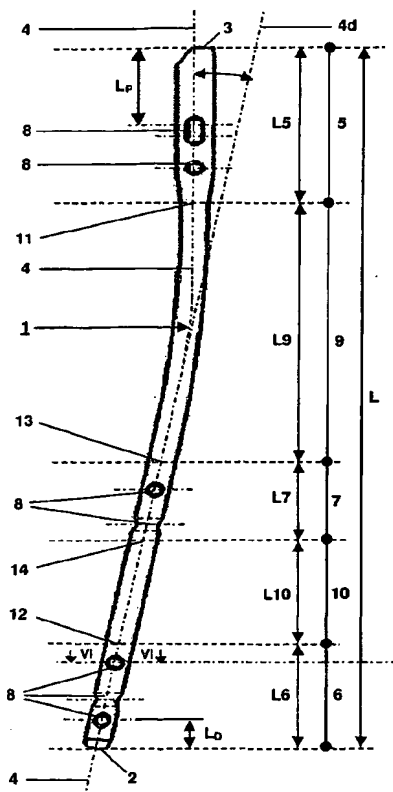
(74) Agent: LUSUARDI, Werther; Dr. Lusuardi AG,
Kreuzbühlstrasse 8, CH-8008 Zürich (CH).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: INTRAMEDULLARY NAIL



(57) Abstract: The intramedullary nail (1) is designated in particular for the tibia and has a distal end (2) for insertion into the medullary canal, a proximal end (3), a central axis (4) and a generally rod-like shape over the hole length L. The nail (1) has three distinct locking sections (5,6,7) with at least one through-hole (8) each for receiving locking screws whereby said three locking sections (5,6,7) are separated from each other by two distinct intermediate sections (9,10) having less through-holes (8) per length unit than each of the locking sections (5,6,7).

WO 2005/079676 A1



GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *with amended claims*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*